



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Ruskin Company
3900 Dr. Greaves Road
Grandview, MO 64030

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model EME6325D Aluminum Louver

APPROVAL DOCUMENT: Drawing No. 60-022167-01D to 07D, titled "EME6325D Louver", sheets 1 through 7 of 7, dated 06/14/2010, with revision C dated 07/28/2015, prepared by Ruskin Company, signed and sealed by Chelsea G. Welch, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews and revises** NOA # 12-0628.05 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



CU
09/23/2015

NOA No. 15-0731.07
Expiration Date: August 25, 2016
Approval Date: September 24, 2015
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **60-022167-01D to 07D**, titled "EME6325D Louver", sheets 1 through 7 of 7, dated 06/14/2010, with Revision C dated 07/28/2015, prepared by Ruskin Company, signed and sealed by Chelsea G. Welch, P.E.

B. TESTS "Submitted under NOA # 10-0622.01"

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of EME6325 Aluminum Louver Systems", prepared by National Certified Testing Laboratories, Report No. **210-3655-1**, dated 01/26/2010, signed and sealed by Gerald J. Ferrara, P.E.
2. Test report of Wind Driven Rain Resistance per TAS 100(A)-95 on EME6325 Aluminum Louver, prepared by PRI Construction Materials Technologies, LLC, Test Report No. **RCV-007-02-01**, dated 02/27/2009, signed and sealed by Duc T. Nguyen, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis prepared by Ruskin Company, dated 07/28/2015, signed and sealed by Chelsea G. Welch, P.E.

"Submitted under NOA # 10-0622.01"
2. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Ruskin Company, dated 06/14/2010, signed and sealed by Daniel J. Rau, P.E.

D. QUALITY ASSURANCE

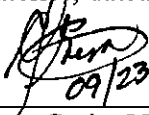
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Test report on Impact Resistance (Missile Level 'E') per ANSI/AMCA 540-13 and Cyclic Wind Pressure Loading per FBC, TAS 203-94 of Model EME6325D Aluminum Louvers with Vertical Blades, prepared by Intertek/Architectural Testing, Inc., Test Report No. **E6970.01-401-44** dated 05/07/2015, with Revision 3 dated 06/11/2015, signed and sealed by Justin P. McDonald, P.E.

F. STATEMENTS

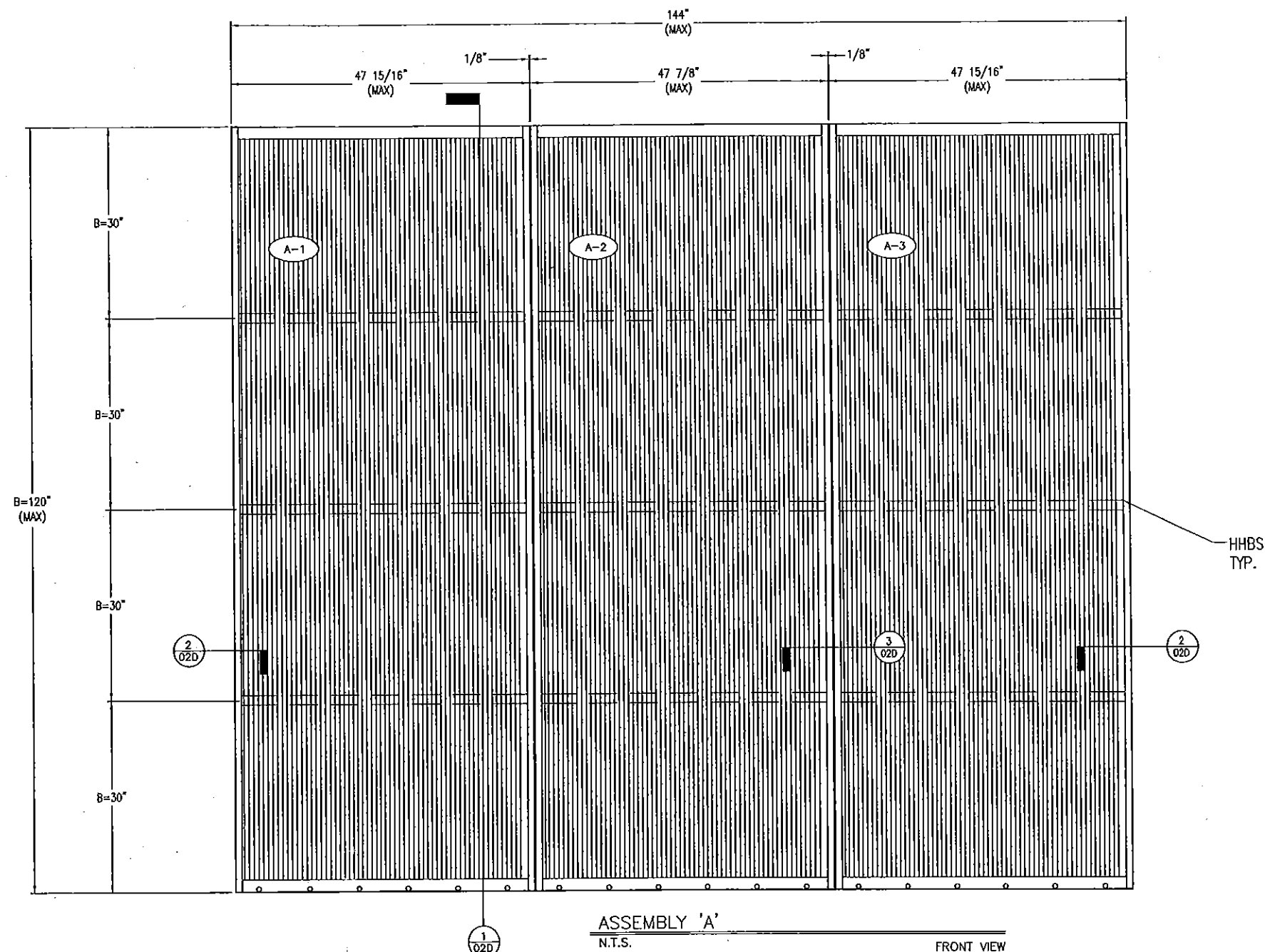
1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Ruskin Company, dated 07/28/2015, signed and sealed by Chelsea G. Welch, P.E.
2. Statement letter of no financial interest, issued by Ruskin Company, dated 07/28/2015, signed and sealed by Chelsea G. Welch, P.E.
3. Contracted testing letter issued by National Certified Testing Laboratories, dated 07/15/2015, signed by Christopher Bennett.


09/23/2015

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 15-0731.07

Expiration Date: August 25, 2016
Approval Date: September 24, 2015

FRAME	
6063-T6 extruded aluminum with .095" nominal wall thickness.	<input checked="" type="checkbox"/>
Flange frame is same material and thickness as above.	<input type="checkbox"/>
BLADES	
6063-T6 extruded aluminum with .062" nominal wall thickness.	<input checked="" type="checkbox"/>
SCREEN	
5/8" x .040" expanded flat-tened aluminum bird screen.	<input type="checkbox"/>
1/2" mesh x .063" aluminum bird screen.	<input checked="" type="checkbox"/>
18-16 mesh alum insect screen	<input type="checkbox"/>
No screen.	<input type="checkbox"/>
FINISH	
Mill.	<input checked="" type="checkbox"/>
Kynar (opt).	<input type="checkbox"/>
Baked enamel (modified fluoropolymer, 50% Kynar, opt).	<input type="checkbox"/>
Color Anodize (opt).	<input type="checkbox"/>
Clear Anodize (opt).	<input type="checkbox"/>
Color:	<input type="checkbox"/>



NOTES: ©

- 1) THE EME6325D HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA PROTOCOLS TAS-100(A), TAS-201, 202 & 203 FOR WATER PERFORMANCE, LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
- 2) THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 150 PSF OR LESS.
- 3) THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
- 4) IT SHALL BE THE RESPONSIBILITY OF PERMIT HOLDER/BUILDING DESIGN ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THIS LOUVER SYSTEM.
- 5) MAXIMUM SINGLE SECTION SIZE: 47 15/16" WIDE X 120" HIGH.
- 7) MAXIMUM ASSEMBLED LOUVER SIZE: UNLIMITED WIDE X 120" HIGH WITH MAX. MULLION SPACING OF 47 15/16".
- 8) SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
- 9) CMU BLOCKS MUST BE TYPE 1, GRADE N, LIGHT, MEDIUM OR NORMAL WEIGHT CONFORMING TO ASTM C90. CMU BLOCKS MUST BE FULLY GROUTED WITH COARSE GROUT CONFORMING TO FLORIDA BUILDING CODE SECTION 2122.8. TYPE N, S OR M MORTAR MUST COMPLY WITH FLORIDA BUILDING CODE SECTION 2103.9. MASONRY COMPRESSIVE STRENGTH MUST BE AT LEAST 1500 PSI AT THE TIME OF INSTALLATION.
- 10) ABBREVIATIONS: NIRC = NOT IN RUSKIN'S CONTRACT, SDS = SELF-DRILLING SCREW, AL = ALUMINUM, S.S.W. = SINGLE SECTION WIDTH
- 11) ALL FASTENERS SHALL BE CORROSION RESISTANT.

DRAWING INDEX: ©

1. EME6325D LOUVER - SPEC, ASSY & NOTES
2. EME6325D LOUVER - WOOD, CONCRETE, STEEL INSTALLATION DETAILS
3. EME6325D LOUVER - CMU INSTALLATION DETAILS
4. EME6325D LOUVER - APPROVED ATTACHMENTS & DRAWING CROSS REFERENCE TABLES
5. EME6325D LOUVER - PART DETAILS
6. EME6325D LOUVER - PART DETAILS
7. EME6325D LOUVER - PART DETAILS

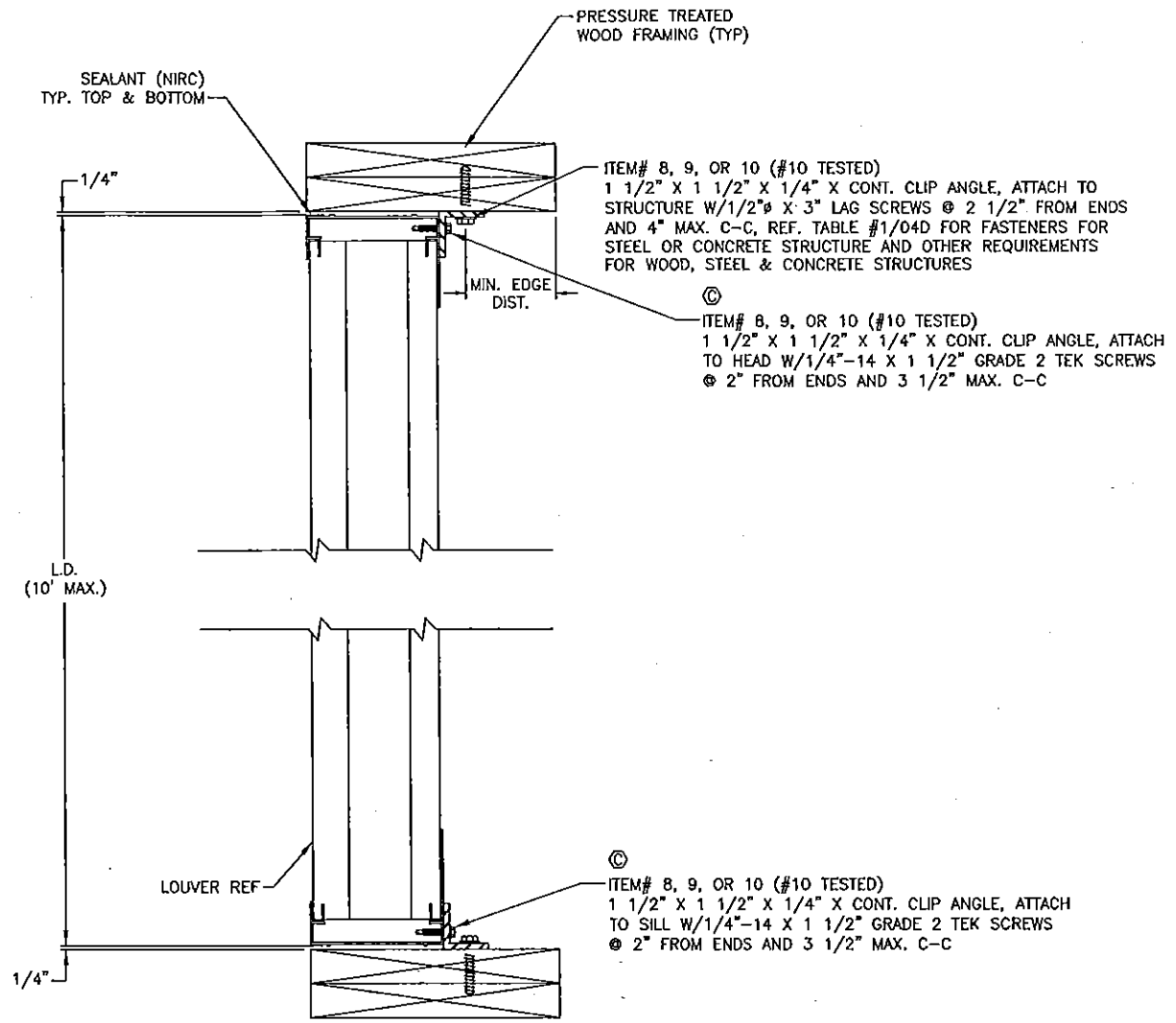
FOR OFFICE USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-073107
Expiration Date 08/25/2016
By *[Signature]*
Miami Dade Product Control

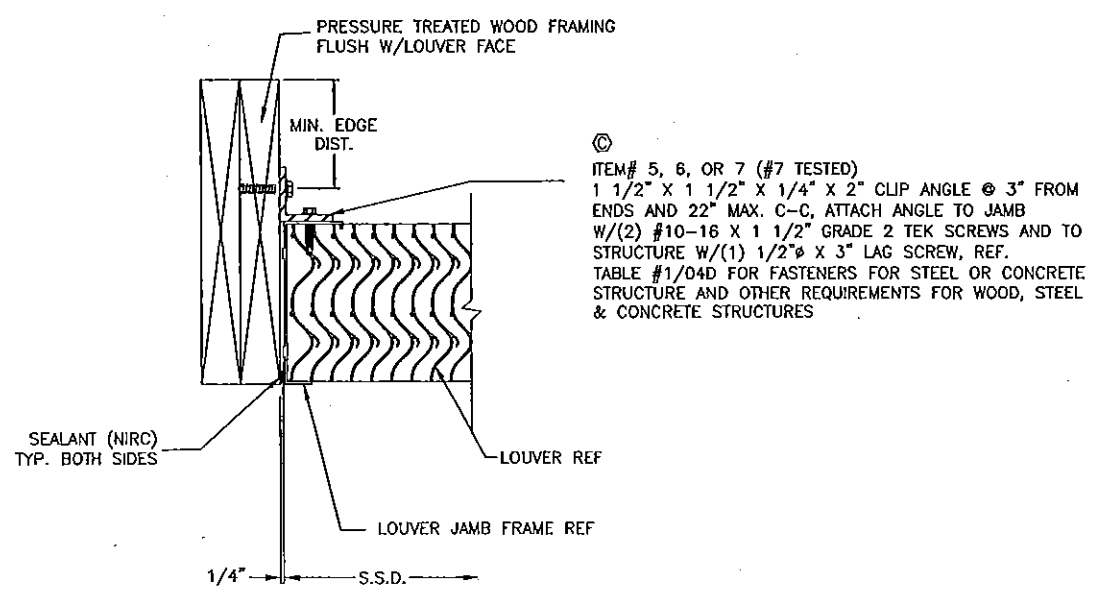
TESTS PERFORMED:
TAS-100A WATER PERFORMANCE TEST
TAS-201 LARGE MISSILE IMPACT TEST
TAS-202 UNIFORM STATIC AIR PRESSURE TEST
TAS-203 CYCLIC WIND PRESSURE TEST
DESIGN PRESSURE RATING: 150 PSF

ENGINEER OF RECORD CHELSEA G. WELCH	REVISED ENGR. OF RECORD NOTES AND DRAWING INDEX	RKP	RKP	CGW	7/28/15
ENGINEERING DISCIPLINE CIVIL/STRUCTURAL ENGINEERING	MDCCCO COMMENTS	DRP	VMA	VMA	7/22/10
REGISTRATION NUMBER FL #67221	CLIP ANGLE AND FASTENER	VMA			
DRAWING LETTER	REVISION DESCRIPTION	DRP	DRP	APP'D. BY	DATE
DATE 6/9/09	DATE 6/14/10	DATE 6/14/10	DATE		
DATE 6/9/09	DATE 6/14/10	DATE 6/14/10	DATE		
SHEET 1 OF 7	EME6325D LOUVER SPEC, ASSY & NOTES	ECN	4621		

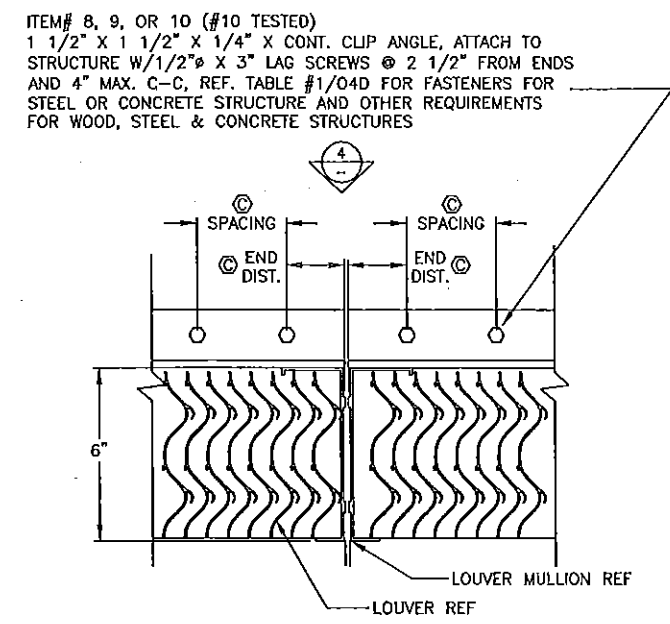
Chelsea G. Welch
7/28/15



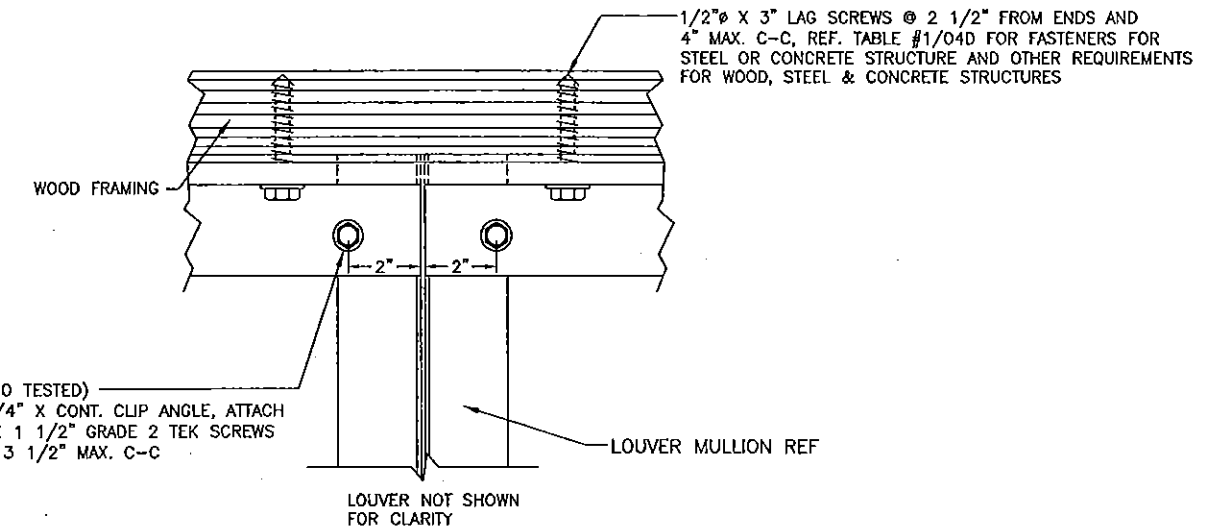
1 HEAD & SILL DETAIL: METHOD 1 - AS TESTED - WOOD FRAMING
01D N.T.S.
ALTERNATE STRUCTURE - STEEL FRAMING, CONCRETE



2 JAMB DETAIL: METHOD 1 - AS TESTED - WOOD FRAMING
01D N.T.S.
ALTERNATE STRUCTURE - STEEL FRAMING, CONCRETE



3 MULLION DETAIL: METHOD 1 - AS TESTED - WOOD FRAMING
01D N.T.S.
ALTERNATE STRUCTURE - STEEL FRAMING, CONCRETE



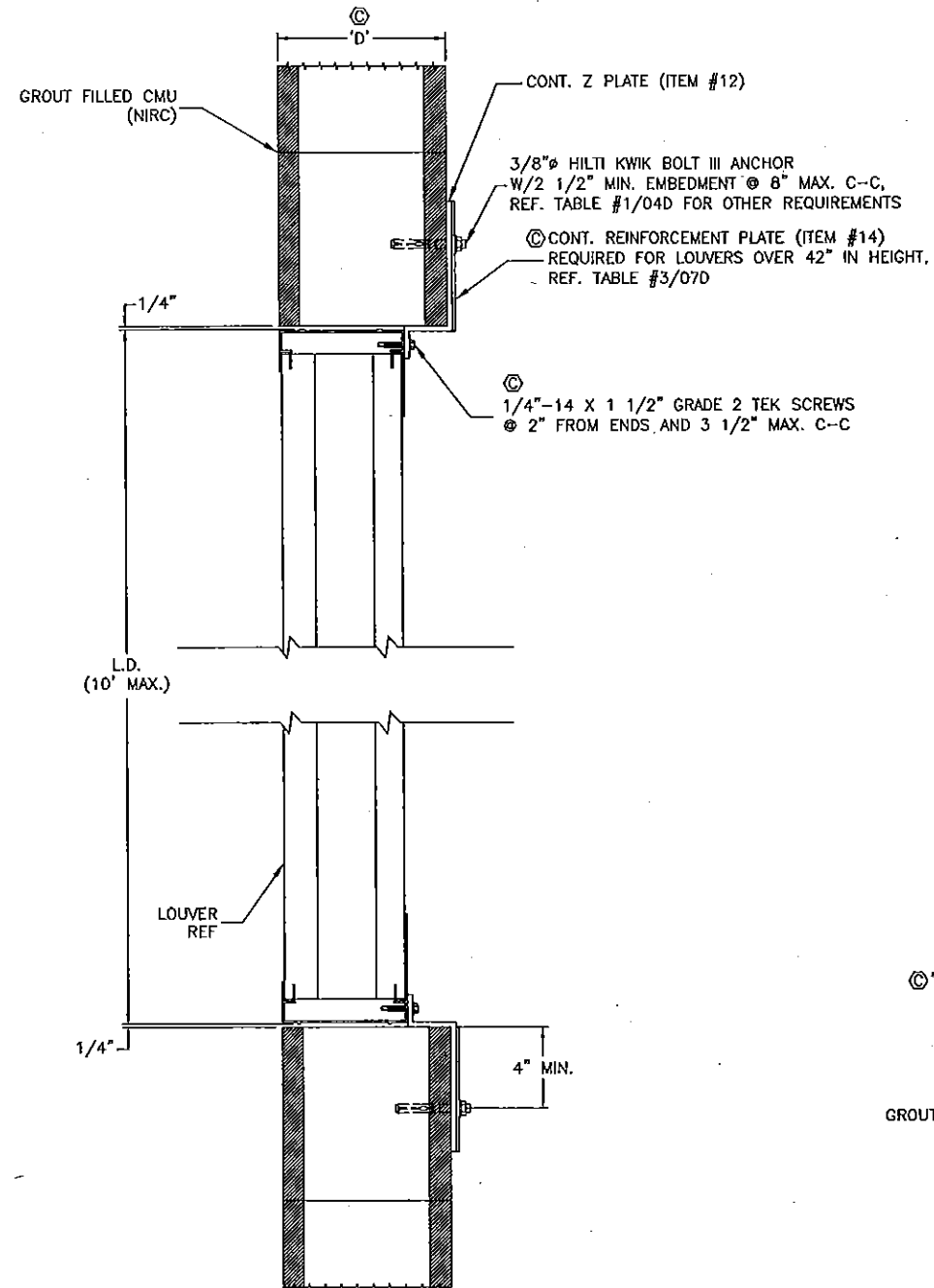
4 MULLION HEAD DETAIL @ STRUCTURE (SILL SIM): METHOD 1 - AS TESTED - WOOD FRAMING
01D N.T.S.
ALTERNATE STRUCTURE - STEEL FRAMING, CONCRETE
REAR VIEW

Chelsea G. Welch
7/29/2015

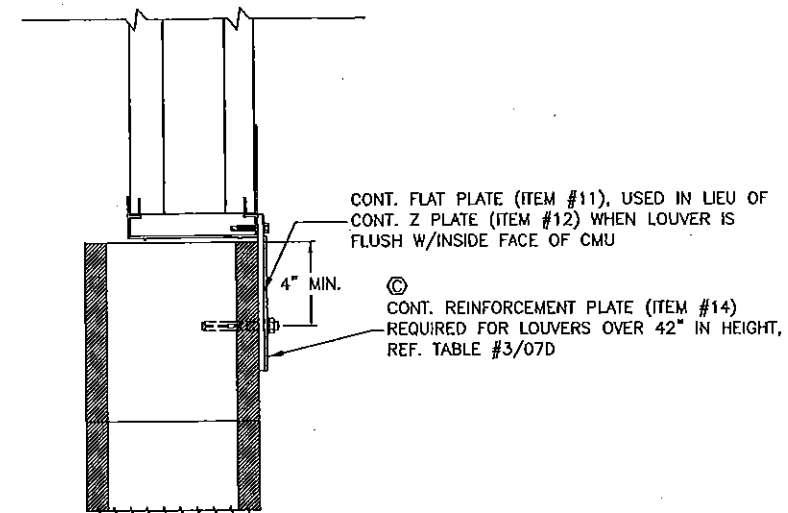
FOR OFFICE USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0731-07
Expiration Date 08/25/2016
By *[Signature]*
Miami Dade Product Control

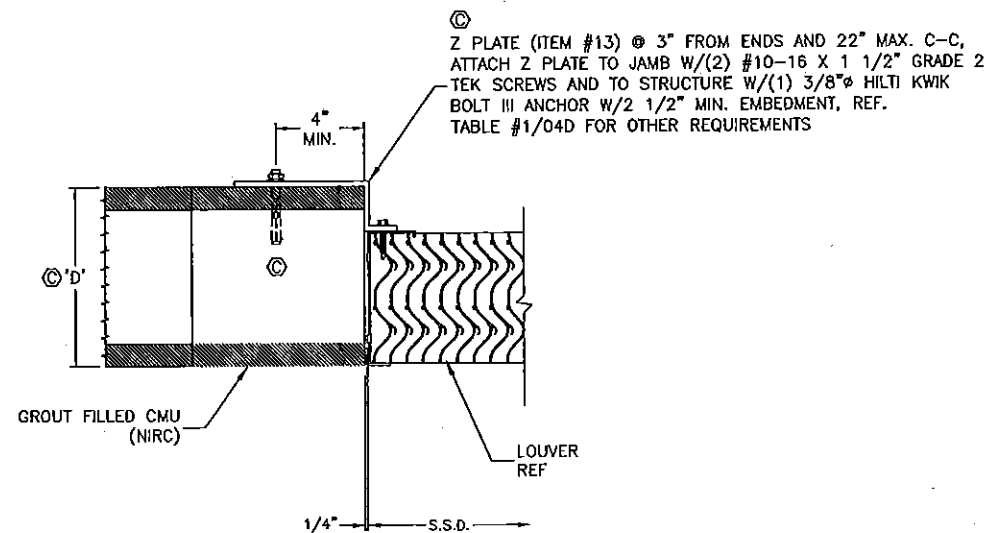
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CHELSEA G. WELCH													
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CIVIL/STRUCTURAL ENGINEERING		Ⓓ		MODCCO COMMENTS		DRP		VMA		VMA		7/22/10	
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FL #67221													
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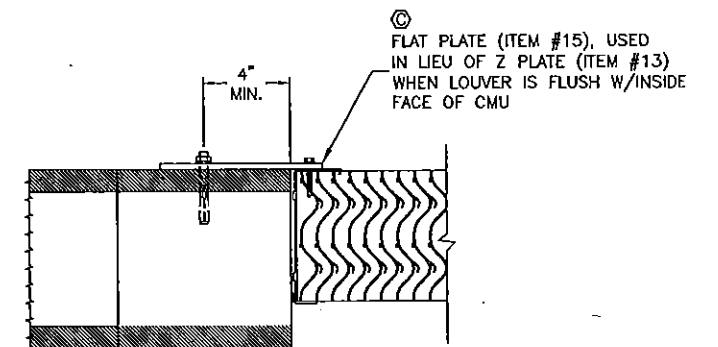
1A HEAD & SILL DETAIL: METHOD 2 - GROUT FILLED CMU (REF. NOTE 9)©
01D N.T.S.



1B HEAD & SILL DETAIL: METHOD 2 - GROUT FILLED CMU (REF. NOTE 9)©
N.T.S.



2A JAMB DETAIL: METHOD 2 - GROUT FILLED CMU (REF. NOTE 9)©
01D N.T.S.



2B JAMB DETAIL: METHOD 2 - GROUT FILLED CMU (REF. NOTE 9)©
01D N.T.S.

Chelsea G. Welch
7/29/2015

FOR OFFICE USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0731.07
Expiration Date 08/25/2016
By *[Signature]*
Miami Trade Product Control

ENGINEER OF RECORD CHELSEA G. WELCH		REVISOR RKP		REVISOR RKP		REVISOR CGW		DATE 1/28/15	
ENGINEERING DISCIPLINE CIVIL/STRUCTURAL ENGINEERING		REVISOR DRP		REVISOR VMA		REVISOR VMA		DATE 7/2/10	
REGISTRATION NUMBER FL #67221		REVISION DESCRIPTION		DATE		DATE		DATE	
DATE 6/9/09		DATE 6/14/10		DATE 6/14/10		DATE		DATE	
SHEET 3 OF 7		RUSKIN SWARTWOUT		3900 DEL. CREATES CO. GRANDVIEW, MO 64030		PLOT SCALE NONE		ECN 4621	
		EM6325D LOUVER CMU INSTALLATION DETAILS				60-022167-03D			

©TABLE #1: APPROVED ATTACHMENTS

STRUCTURE	CONNECTION TYPE	ANGLE SLOT WIDTH	SPACING	MIN. EMBEDMENT	MIN. EDGE DIST.	END DIST.
(12 GA MIN.) STEEL FRAMING	$\frac{1}{4}"\phi$ A307 BOLT OR $\frac{1}{4}"-14$ GRADE 2 SDS	$\frac{5}{16}"$	3 $\frac{1}{2}"$ MAX. C-C	N/A	$\frac{1}{2}"$	2 $\frac{1}{2}"$
(4" MIN.) CONCRETE (4000 PSI MIN.)	$\frac{3}{8}"\phi$ HILTI KB TZ ANCHOR	$\frac{7}{16}"$	6" MAX. C-C	2"	3"	3"
GROUT FILLED CMU	$\frac{3}{8}"\phi$ HILTI KB III ANCHOR	$\frac{7}{16}"$	8" MAX. C-C	2 $\frac{1}{2}"$	4"	4" MIN.
(2 - 2 X 10) WOOD FRAMING (MIN. S.G. = 0.55)	$\frac{1}{2}"\phi$ X 3" A307 LAG SCREW	$\frac{9}{16}"$	4" MAX. C-C	3"	2 $\frac{1}{2}"$	2 $\frac{1}{2}"$

NOTE: ALL FASTENERS MUST BE INSTALLED PER THE MANUFACTURER'S MIAMI-DADE COUNTY APPROVED INSTALLATION INSTRUCTIONS

TABLE #2: DRAWING CROSS REFERENCE

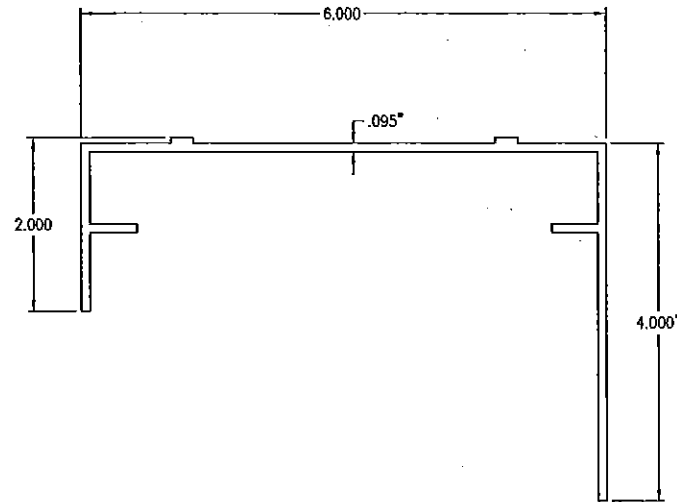
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2	60-022167-05D	6063-T6 AL	BLADE	70-021868-00B
3	60-022167-05D	6063-T6 AL	SILL FRAME	70-022627-00B
4	60-022167-05D	6063-T6 AL	JAMB FRAME	70-022227-00B
5	60-022167-06D	6063-T6 AL	CLIP ANGLE (STEEL STRUCTURE)	-
6	60-022167-06D	6063-T6 AL	CLIP ANGLE (CONCRETE STRUCTURE)	-
7	60-022167-06D	6063-T6 AL	CLIP ANGLE (WOOD STRUCTURE)	-
8	60-022167-06D	6063-T6 AL	CONT. CLIP ANGLE (STEEL STRUCTURE)	-
9	60-022167-06D	6063-T6 AL	CONT. CLIP ANGLE (CONCRETE STRUCTURE)	-
10	60-022167-06D	6063-T6 AL	CONT. CLIP ANGLE (WOOD STRUCTURE)	-
11	60-022167-07D	3003-H14 AL	HEAD/SILL CONT. FLAT PLATE (CMU STRUCTURE)	-
12	60-022167-07D	3003-H14 AL	HEAD/SILL CONT. Z PLATE (CMU STRUCTURE)	-
13	60-022167-07D	3003-H14 AL	JAMB Z PLATE (CMU STRUCTURE)	-
14	60-022167-07D	REF. TABLE #3	CONT. REINFORCEMENT PLATE (CMU STRUCTURE)	-
15	60-022167-07D	3003-H14 AL	JAMB FLAT PLATE (CMU STRUCTURE)	-

Chelsa Welch
7/29/2015

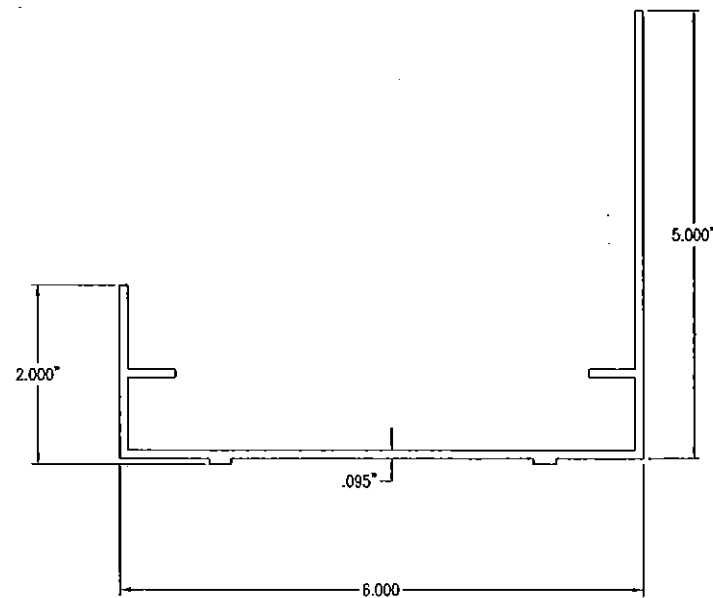
FOR OFFICE USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0731.07
Expiration Date 08/25/2016
By *[Signature]*
Miami Dade Product Control

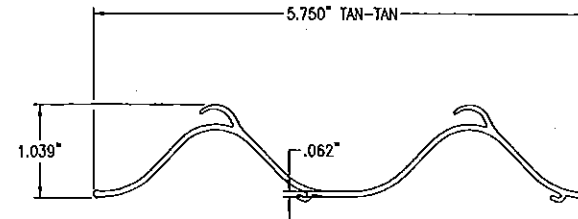
ENGINEER OF RECORD CHELSEA G. WELCH		REVISION ENGINEER OF RECORD AND TABLES		RKP	RKP	CGW	7/28/15
ENGINEERING DISCIPLINE CIVIL/STRUCTURAL ENGINEERING		MDCDCO COMMENTS		DRP	VMA	VMA	7/22/10
REGISTRATION NUMBER FL #67221		CHANGE LETTER	REVISION DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	DATE
DATE: 6/9/09		DATE: 6/14/10	DATE: 6/14/10	RUSKIN SWARTWOUT		200 DR. CHANGES TO SUBMITTEE, NO. 1403	
SHEET 4 OF 7		TITLE EME6325D LOUVER APPROVED ATTACHMENTS & DWG. CROSS REF. TABLES		PLOT SCALE NONE		ECN 4621	
				DWG. NO.		60-022167-04D	



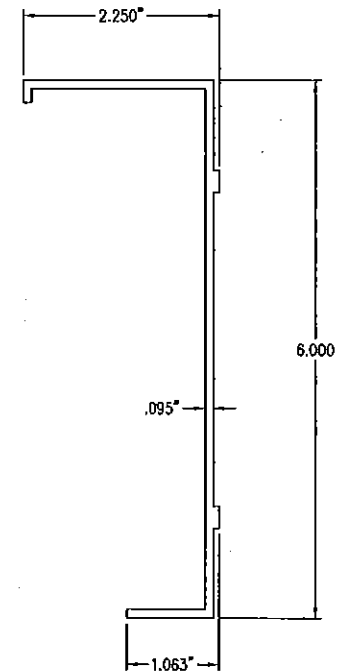
ITEM 1 - HEAD FRAME
RUSKIN# 70-021995-008



ITEM 3 - SILL FRAME ©
RUSKIN# 70-022627-008



ITEM 2 - BLADE
RUSKIN# 70-021868-008



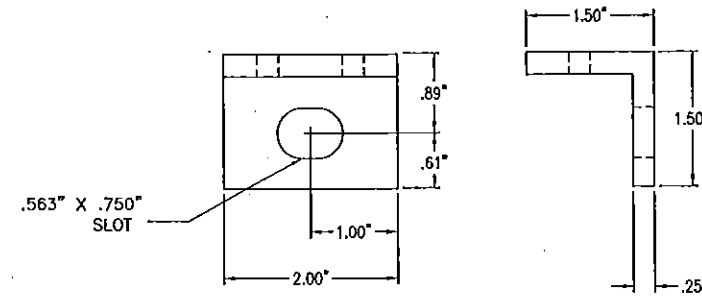
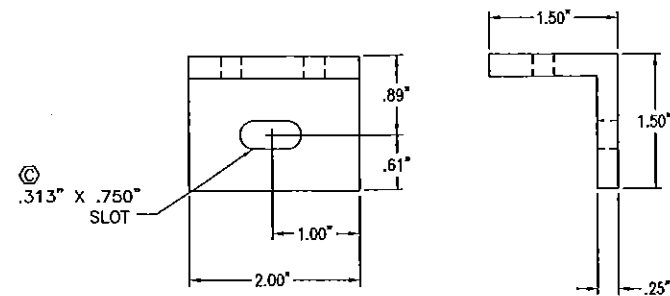
ITEM 4 - JAMB FRAME
RUSKIN# 70-022227-008

Chelsea G. Welch
7/29/2015

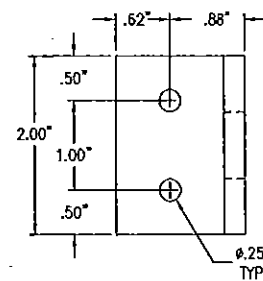
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Building Code
Acceptance No 15-0731.07
Expiration Date 08/25/2016
By [Signature]
Miami Trade Product Control

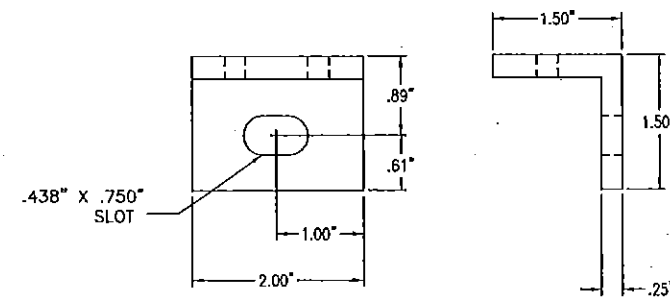
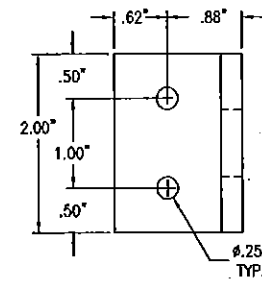
ENGINEER OF RECORD CHELSEA G. WELCH		REVISED ENGR. OF RECORD AND ITEM #3 PART NUMBER		RKP	RKP	CGW	7/28/15												
ENGINEERING DISCIPLINE CIVIL/STRUCTURAL ENGINEERING		MDCDCO COMMENTS		DRP	VMA	VMA	7/22/10												
REGISTRATION NUMBER FL #67221		REVISION DESCRIPTION		ENCL. BY:	CHG'D. BY:	APPROV'D. BY:	DATE												
<table border="1"> <tr> <td>DATE</td> <td>BY</td> <td>DATE</td> <td>BY</td> <td>DATE</td> <td>BY</td> </tr> <tr> <td>6/9/09</td> <td>VMA</td> <td>6/14/10</td> <td>DJR</td> <td>8/14/10</td> <td>DJR</td> </tr> </table>		DATE	BY	DATE	BY	DATE	BY	6/9/09	VMA	6/14/10	DJR	8/14/10	DJR	RUSKIN SWARTWOUT		300 SE. SHORES BL. CHANGES TO BLAD PROPRIETARY INFORMATION		PLOT SCALE NONE	
DATE	BY	DATE	BY	DATE	BY														
6/9/09	VMA	6/14/10	DJR	8/14/10	DJR														
SHEET 5 OF 7		EM6325D LOUVER PART DETAILS		ECN 4621		60-022167-05D													



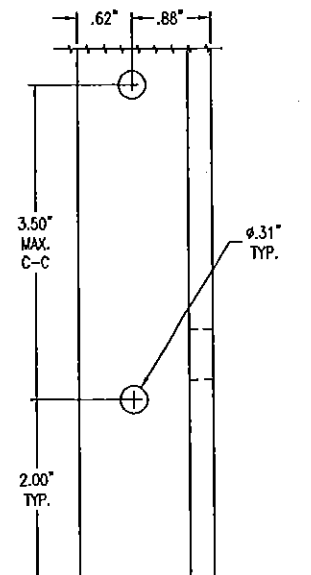
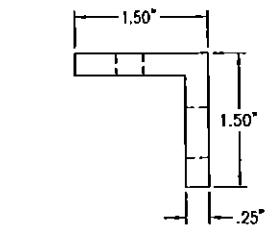
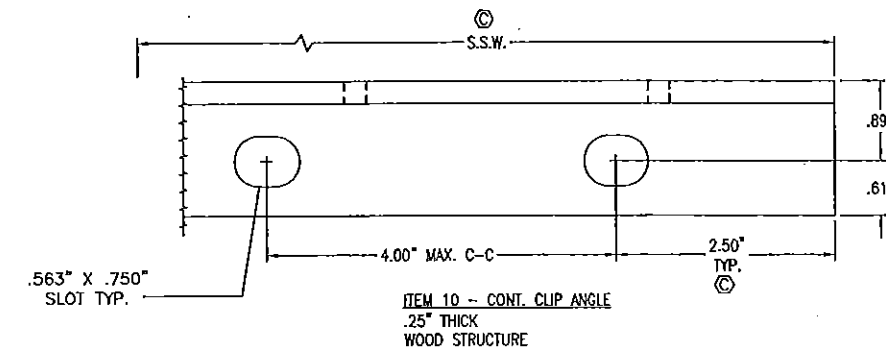
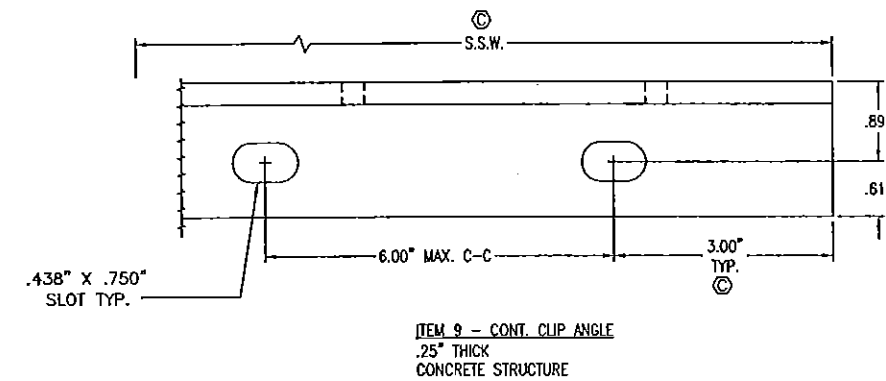
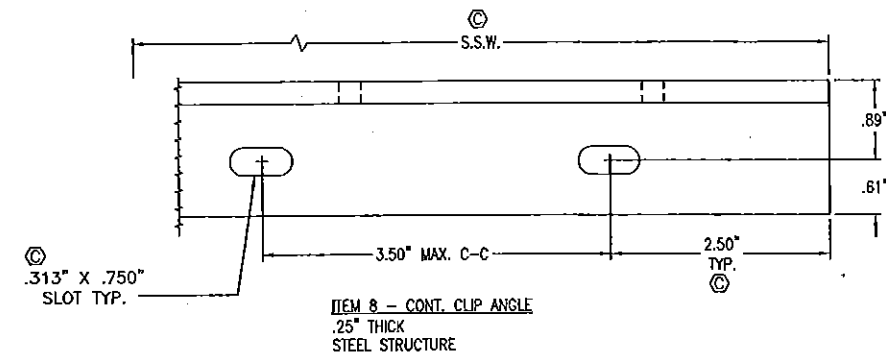
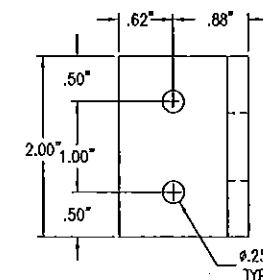
ITEM 5 - CLIP ANGLE
STEEL STRUCTURE



ITEM 7 - CLIP ANGLE
WOOD STRUCTURE



ITEM 9 - CLIP ANGLE
CONCRETE STRUCTURE

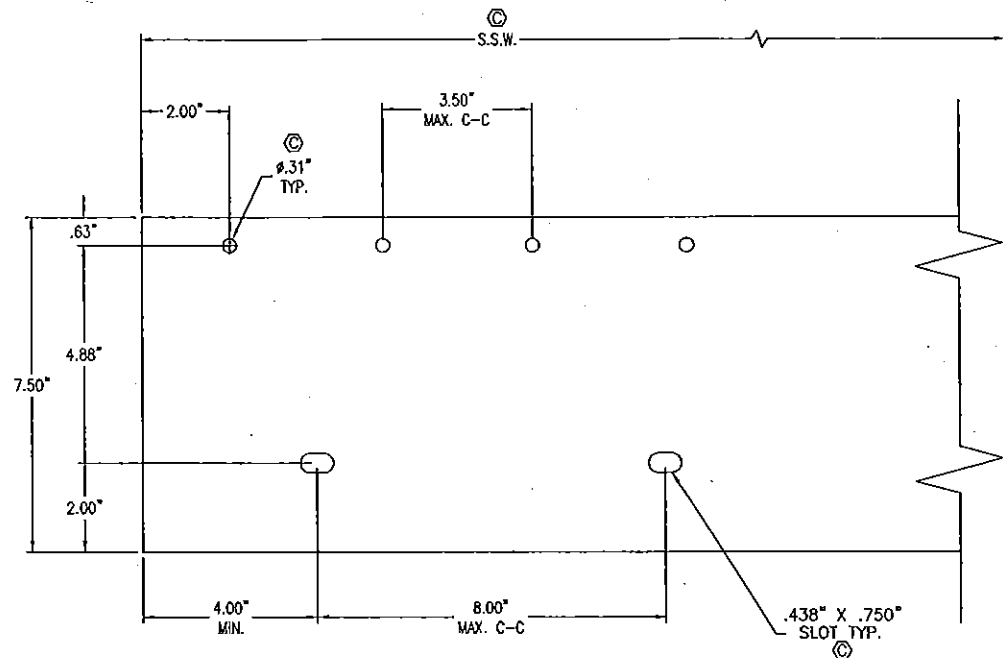


Checked
7/29/2015

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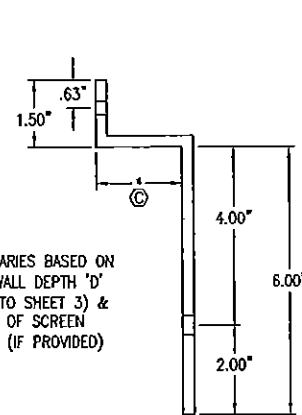
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Expiration Date 05/25/2016
By *[Signature]*
Miami Dade Product Control

ENGINEER OF RECORD CHELSEA G. WELCH		REVISED ENGR. OF RECORD RKP RKP CGW		7/28/15
ENGINEERING DISCIPLINE CIVIL/STRUCTURAL ENGINEERING		MOCCO COMMENTS DRP VMA VMA		7/2/10
REGISTRATION NUMBER FL #67221		REVISION DESCRIPTION		
DATE: 6/9/09		CHK'D BY: RUSKIN	APP'D BY: SWARTWOUT	DATE: 6/14/10
SHEET 6 OF 7		PLOT SCALE NONE		ECN 4621
		TITLE EME6325D LOUVER PART DETAILS		60-022167-06D

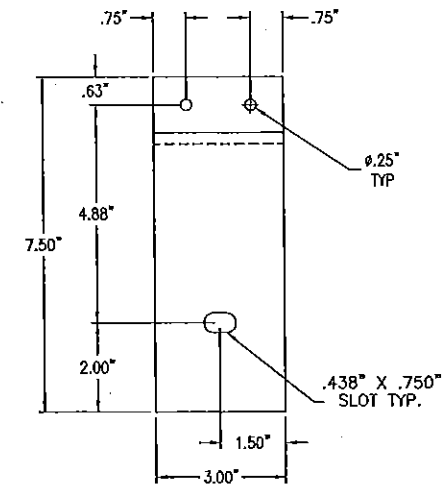


ITEM 11 - HEAD/SILL CONT. FLAT PLATE
.25\"

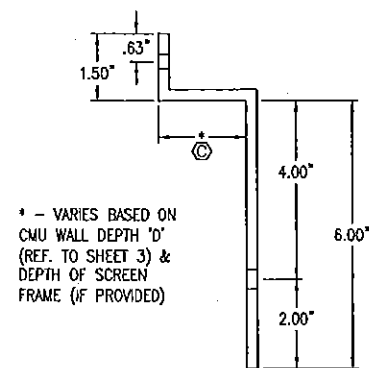
* - VARIES BASED ON
CMU WALL DEPTH 'D'
(REF. TO SHEET 3) &
DEPTH OF SCREEN
FRAME (IF PROVIDED)



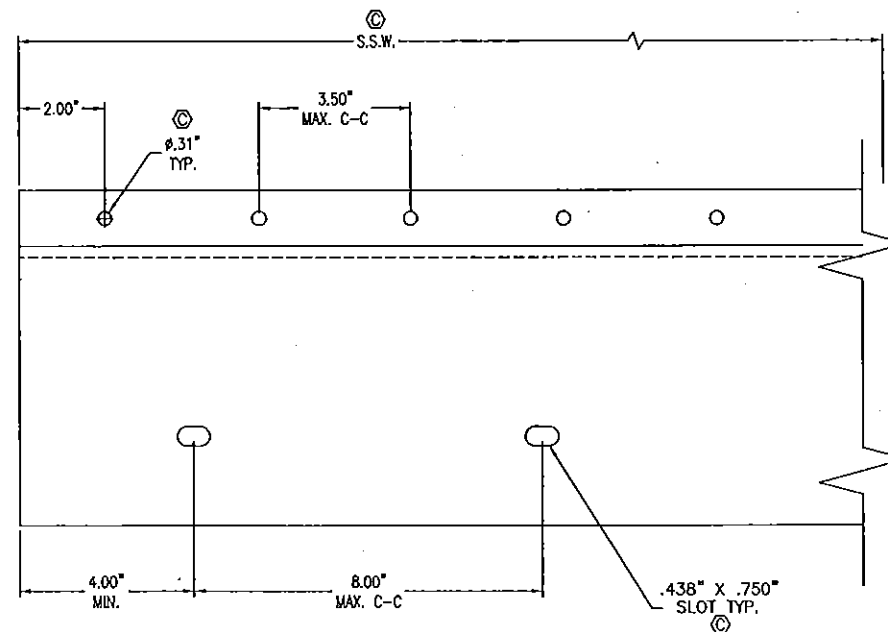
ITEM 13 - JAMB Z PLATE
.25\"



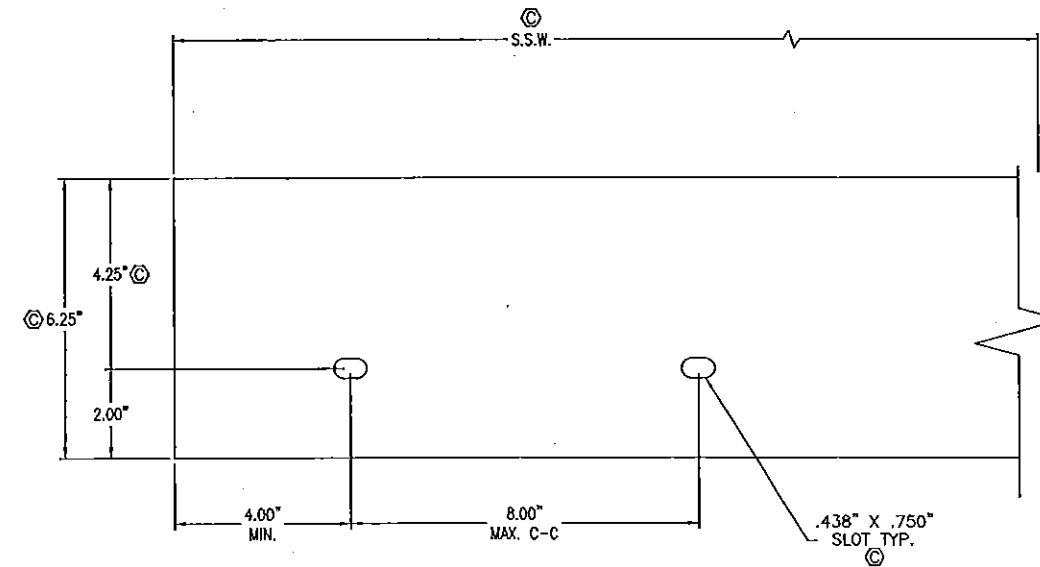
ITEM 15 - JAMB FLAT PLATE
.25\"



* - VARIES BASED ON
CMU WALL DEPTH 'D'
(REF. TO SHEET 3) &
DEPTH OF SCREEN
FRAME (IF PROVIDED)



ITEM 12 - HEAD/SILL CONT. Z PLATE
.25\"



ITEM 14 - CONT. REINFORCEMENT PLATE
REF. TABLE #3

TABLE #3		
LOUVER HEIGHT	ITEM #14 PLATE THICKNESS	MATERIAL
42\"	.125\"	5005-H34 AL
96\"	.25\"	3003-H14 AL

Chelsea G. Welch
7/29/2015

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Miami Dade Product Control

ENGINEER OF RECORD CHELSEA G. WELCH		REVISED ENGR. OF RECORD ITEM #13 AND TABLE #3 REVISED/ADDED ANNOTATIONS, ADDED ITEM #15		RKP	RKP	CGW	7/28/15
ENGINEERING DISCIPLINE CIVIL/STRUCTURAL ENGINEERING		MDCDCO COMMENTS		DRP	VMA	VMA	7/22/16
REGISTRATION NUMBER FL #67221		REVISION DESCRIPTION		DRP	VMA	VMA	7/22/16
DATE 6/9/09	DATE 6/14/10	DATE 6/14/10	DATE	NONE			
SHEET 7 OF 7		EME6325D LOUVER PART DETAILS		60-022167-07D			